AMENDMENTS TO THE CLAIMS

The following listing of claims will replace all prior versions and listing of claims in the application:

LISTING OF CLAIMS:

Claim 1 (Currently amended) A routing protocol device integrated with SIP call server, the routing protocol device being provided between [[a]] first and [[a]] second network systems, the SIP call server being ~~an~~ a Session Initiation Protocol architecture which can be coupled with a plurality of remote SIP agent client devices, the routing protocol device comprising:

a first connecting port coupled with the first network system;

a second connecting port coupled with the second network system; and

a data packet processing module electrically connected to the first and second connecting ports, the data packet processing module including: ~~for executing:~~

(a) [[a]] routing protocol ~~program to~~ means for selecting a ~~the~~ data packet transmission path of the first and second network systems; ~~and~~

(b) ~~at least one~~ an SIP ~~servo program, whereby after~~ registry server for registering the remote SIP agent client devices ~~perform SIP registry and the locations are~~

~~linked, an SIP IP phone loop is formed for remote voice telecommunication.~~ and thereby stores an SIP URI of the remote SIP agent client devices;

(c) an SIP location server for seeking the location of the remote SIP agent client device and convert the location into the SIP URI of the remote SIP agent client, whereby the remote SIP agent client devices can directly bidirectionally telecommunicate with each other by voice; and

(d) an SIP proxy server for transmitting an INVITE message sent from one remote SIP agent client device to another remote SIP agent client device to initiate a voice phone call.

Claim 2 (Original) The routing protocol device as claimed in claim 1, wherein the first and second network systems are Internets or LAN.

Claim 3 (Original) The routing protocol device as claimed in claim 1, wherein the first network system is coupled with a first remote SIP agent client device, while the second network system is coupled with a second remote SIP agent client device.

Claim 4 (Original) The routing protocol device as claimed in claim 3, wherein the first and second remote SIP agent client devices are computer mainframes or IP phones for converting voice signal into digital signal or converting digital signal into voice signal for bidirectional voice telecommunication.

Claim 5 (Original) The routing protocol device as claimed in claim 1, wherein the remote SIP agent client device is a computer mainframe, a network hub, an IP phone gateway or a PSTN gateway.

Claim 6 (Currently amended) The routing protocol device as claimed in claim 1, wherein ~~by means of executing~~ the routing protocol ~~program, the data packet processing module~~ means selects the data packet transmission path of the first network system via the first connecting port.

Claim 7 (Currently amended) The routing protocol device as claimed in claim 1, wherein ~~by executing~~ the routing protocol ~~program, the data packet processing module~~ means selects the data packet transmission path of the second network system via the second connecting port.

Claims 8-11 (Cancelled).

Claim 12 (Currently amended) The routing protocol device as claimed in claim 1, wherein the data packet processing module includes:

a microprocessor unit, the microprocessor unit including ~~mainly serving to execute~~ the routing protocol ~~program and~~ means, the SIP ~~servo program~~ registry server, the SIP location server, and the SIP proxy server; and

a memory unit electrically connected with the microprocessor unit for storing ~~at least one executed~~ program to implement the SIP registry server, the SIP location server, and the SIP proxy server, the URI of the remote SIP agent client and the data packet to be transmitted.

Claim 13 (Original) The routing protocol device as claimed in claim 12, wherein the memory unit is an ROM, a DRAM or a flash memory.